



Water-Data Report 2008

08111700 Mill Creek near Bellville, TX

Lower Brazos Basin
Lower Brazos Subbasin

LOCATION.--Lat 29°52'51", long 96°12'18" referenced to North American Datum of 1927, Austin County, TX, Hydrologic Unit 12070104, on right bank at downstream side of bridge over main channel on State Highway 36, 5.0 mi southeast of Bellville, and 6.0 mi upstream from Brazos River.

DRAINAGE AREA.--376 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1963 to Sept. 1993, Apr. 2000 to current year.

PERIOD OF RECORD, Water-Quality.--

Chemical data: Jan. 1969 to Aug. 1985.

Biochemical data: Jan. 1969 to Sept. 1973.

Sediment data: Dec. 1965 to Sept. 1975.

REVISED RECORDS.--WSP 2122: 1965(P). WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 122.82 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions. During the year, the city of Bellville discharges sewage effluent into a tributary of Mill Creek above gage. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1899, 22.8 ft in 1940, from information by local residents and the Texas Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 18	2315	*11,100	*14.19
No other peak greater than base discharge			

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	12	75	50	108	70	87	24	8.5	5.2	3.7	2.3
2	13	12	72	47	111	68	71	23	7.7	5.4	3.2	2.1
3	10	12	65	45	89	75	61	22	7.3	39	3.3	1.6
4	8.7	12	58	46	81	85	57	20	6.9	11	5.7	1.5
5	8.0	11	57	48	79	108	56	22	6.6	8.8	4.8	1.3
6	7.4	11	56	50	74	89	53	28	6.1	9.9	4.3	1.2
7	7.0	11	55	51	65	135	51	33	5.9	9.3	4.2	1.2
8	11	12	55	53	59	334	48	34	5.6	11	3.3	1.3
9	9.9	12	54	51	58	153	46	27	5.5	26	2.6	1.3
10	8.4	13	52	50	56	144	46	23	5.4	18	2.2	1.1
11	7.5	14	52	50	56	549	45	20	5.3	12	2.1	1.3
12	7.1	12	59	46	62	746	40	17	4.9	8.6	2.2	1.6
13	6.6	12	102	44	61	231	35	16	4.6	6.8	2.1	4.4
14	6.4	11	96	43	57	146	32	17	4.5	6.1	1.9	58
15	28	11	93	43	57	118	31	63	4.4	5.5	3.3	57
16	156	10	422	111	97	99	30	405	4.2	5.5	4.9	16
17	67	22	533	95	1,480	88	30	223	4.2	7.5	6.1	9.8
18	34	7,390	146	78	2,440	86	52	73	4.5	6.1	5.5	8.9
19	22	6,020	105	310	1,010	133	64	46	4.5	5.3	7.1	7.1
20	16	456	100	234	209	146	51	34	4.6	4.6	11	6.1
21	14	170	119	142	185	112	44	27	4.0	4.0	8.6	5.0
22	16	106	88	187	150	92	37	23	3.7	3.9	5.8	4.5
23	17	79	68	168	120	82	33	20	3.4	4.1	4.5	4.4
24	13	422	58	222	100	73	29	17	3.5	6.9	3.9	4.0
25	13	1,290	55	254	89	67	27	16	3.6	47	3.4	3.8
26	13	412	58	200	86	65	37	14	3.7	17	3.1	3.6
27	13	176	61	157	81	65	59	12	45	9.4	3.3	3.4
28	13	118	60	124	73	65	47	12	10	6.4	3.5	3.0
29	13	95	57	105	72	64	34	11	6.2	5.4	3.0	2.9
30	12	81	54	90	---	64	28	9.9	5.5	4.4	2.7	2.6
31	12	---	53	83	---	66	---	9.4	---	3.8	2.5	---
Total	594.0	17,025	3,038	3,277	7,265	4,418	1,361	1,341.3	199.8	323.9	127.8	222.3
Mean	19.2	568	98.0	106	251	143	45.4	43.3	6.66	10.4	4.12	7.41
Max	156	7,390	533	310	2,440	746	87	405	45	47	11	58
Min	6.4	10	52	43	56	64	27	9.4	3.4	3.8	1.9	1.1
Ac-ft	1,180	33,770	6,030	6,500	14,410	8,760	2,700	2,660	396	642	253	441
Cfsm	0.05	1.51	0.26	0.28	0.67	0.38	0.12	0.12	0.02	0.03	0.01	0.02
In.	0.06	1.68	0.30	0.32	0.72	0.44	0.13	0.13	0.02	0.03	0.01	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2008^h, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	125	225	240	284	336	270	291	432	425	46.7	27.2	86.1
Max	1,008	1,575	1,472	1,350	2,188	1,202	1,604	1,930	2,022	470	302	1,202
(WY)	(2003)	(2003)	(1977)	(1974)	(1992)	(1983)	(1991)	(1979)	(1987)	(2007)	(1974)	(1974)
Min	2.50	3.84	8.20	12.9	11.8	12.4	14.8	6.30	2.77	0.98	1.18	0.75
(WY)	(2006)	(1964)	(1964)	(2006)	(1967)	(1967)	(2006)	(2006)	(1990)	(1971)	(2000)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1963 - 2008 ^h	
Annual total	108,930.3		39,193.1			
Annual mean	298		107		233	
Highest annual mean					667	1992
Lowest annual mean					9.24	2006
Highest daily mean	9,240	Jan 14	7,390	Nov 18	24,000	Nov 1, 1981
Lowest daily mean	6.2	May 21	1.1	Sep 10	0.08	Jul 22, 1971
Annual seven-day minimum	8.1	Oct 8	1.2	Sep 5	0.20	Jun 28, 1967
Maximum peak flow			11,100	Nov 18	44,400	Jun 13, 1973
Maximum peak stage			14.19	Nov 18	17.95	Jun 13, 1973
Annual runoff (ac-ft)	216,100		77,740		169,100	
Annual runoff (cfsm)	0.794		0.285		0.621	
Annual runoff (inches)	10.78		3.88		8.43	
10 percent exceeds	554		143		282	
50 percent exceeds	61		27		34	
90 percent exceeds	12		3.6		4.0	

^h See Period of Record paragraph.

